

CSS - 2024

Find the missing terms

a) - 121, 11, 81, 9, 49, 7

Arrows indicate the relationship between terms:

- 121 to 11: 11^2
- 81 to 9: 9^2
- 49 to 7: 7^2

b) - 100, 50, 25, 12.5, 6.25

Arrows indicate the relationship between terms:

- 100 to 50: $\frac{100}{2}$
- 50 to 25: $50 \div 2$
- 25 to 12.5: $25 \div 2$
- 12.5 to 6.25: $12.5 \div 2$

c) - 4, 9, 64, 125, 1296, 2401

Arrows indicate the relationship between terms:

- 4 to 9: 2^2
- 9 to 64: 3^2
- 64 to 125: 4^3
- 125 to 1296: 5^3
- 1296 to 2401: 6^4
- 2401 to 7: 7^4

d) - 2, 5, 12, 24, 48, 96

Arrows indicate the relationship between terms:

- 2 to 5: $2 \times 2 = 4 + 1$
- 5 to 12: $4 \times 2 = 8 + 4$
- 12 to 24: $8 \times 2 = 16 + 8$
- 24 to 48: $16 \times 2 = 32 + 16$
- 48 to 96: $32 \times 2 = 64 + 32$

e) - 44, 22, 66, 33, 132, 66

Arrows indicate the relationship between terms:

- 44 to 22: $\div 2$
- 22 to 66: $\div 3$
- 66 to 33: $\div 2$
- 33 to 132: $\div 2$
- 132 to 66: $\div 2$

PMT, OOS, NQR, MSQ, LRP

Find missing terms

$$2, 4, 12, 48, \boxed{240} ?$$

$2 \times 2 = 4$ $4 \times 3 = 12$ $12 \times 4 = 48$ $48 \times 5 =$

$$5, 10, 13, 26, 29, 58, 61, \boxed{122} ?$$

5×2 13×2 29×2 61×2

$$15, 19, 28, 44, 29, 105$$

4 9 16 36

$$B, E, K, W, \underline{U}$$

2 5 11 23

$$\{(476 + 424)^2 - 4 \times 476 \times 424\} = ?$$

$$\{(900^2) - 4 \times 201,824\}$$

$$(810,000 - 819,296)$$

$$\boxed{-9296}$$